Watson
N-3

317

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Watson N-3

U. S. G. E. 40th parallel.

Botanical Catalogues & Notes.—

Sereno Watson.

For Cryptogamia see the other end of the book.

Aug. 1897 – Sent to Ft. Chwedale 299 specimens, including 80 species.

Catalogue of Specimens.—

No. of Sheet.—	No. of Specimens.—	
1	10	Potamogeton (primus)
95	14	
2	10	Chara (?)
3	6	Potamogeton (secundus) (?)
4	10 10	Cyperus inflexus.
5	9	Milium (primum.) (?) Agrostis (??)
6	6 4	Panicum (primum.)
7	6 8	Alopecurus (primus.)
8	13	Eragrostis (prima.)
9	11 6 1	Muhlenbergia (prima.) (?)
10	11	Herpestis (prima.) ?
11	10	Herpestis (secunda.) ?

Notes.

July 23/67. In the stagnant alkaline water of a ditch in the Truckee river bottom, near Camp 11. Not yet in bloom. Probably the same as (95.)

July 23/67. With the last, growing in dense bunches.

July 23/67. With the preceding two. Scarcely in bloom.

July 24/67. Sandy bank of the Truckee. Camp 12. Young.
Aug. 15. 67. Same locality. More mature.

July 24/67. Sandy bank of the Truckee. Camp 12. Glumes nearly equal, hairy, had the length of the palea.

July 24th/67. Sandy bank of the Truckee. Camp 12.
Aug. 15. 67. Same locality.

July 24th/67. Sandy bank of the Truckee. Camp 12.
Aug. 15th 67. Same locality.

July 24th/67. Sandy bank of the Truckee. Camp 12.

July 24th/67. Sandy bank of the Truckee. Camp 12.
Aug. 15. 67. Same locality.
Sept. 12. 67. [illegible]

July 24/67. Sandy bottom of the Truckee. Camp 12. The 3 upper divisions of the calyx somewhat larger than the 2 lower. Upper lip of corol 2-lobed, the lower 3-lobed. Stamens all fertile. Style dilated or lobed at apex. Yellow, with 2 purple dots on middle lobe of lower lip. Throat of corol hairy or whole plant villous hairy. Leaves oblong lanceolate, acute, obscurely or rarely dentate. 2-10.

July 26/67. Sandy bottom of the Truckee. Camp 12. Calyx nearly equally 5-lobed, 5-ribbed. Corolla tube twice the length of calyx, border equally 5-lobed. No pubescent ridges on lip, sprinkled with reddish dots. Peduncles 1' long. Leaves ovate, lower ones cordate, acute, petioled, serrate. Whole plant villous, much branched. ½"-2". Yellow.

Block	Specimen	
12	8	Herpestis (tertia.) (?)
	9	
13	13	Epilobium (coloratum ?).
14	11	Veronica (prima.)
15	11	~~Nasturtium (obtusum ?)~~
16	10	Trifolium (~~primum.~~)
17	12	
18	12	Gnaphalium (primum.)
19	4	Mentha (Canadensis ?).

Camp 12.–

July 26/67.– Sandy bottom of the Truckee.– Also on springy shore of Soda Lake; 6th Aug.– Upper division of the ½' calyx longest. Strongly ribbed. Corol (1') 2-lipped, deeply 5-lobed, middle upper lobe indented. Throat nearly closed & upper lip hairy within, with rows of reddish dots – yellow. Stem nearly smooth below. Lower leaves cordate & short petioled, upper ones sessile or perfoliate, unequally serrate, pubescent. 1°.–

July 24/67.– Sandy bottom of Truckee Camp 12,– also shore of Soda Lake. Agrees with description of E. coloratum, except ... the leaves are often clustered in a ridge, making the stem 2-angled – flowers white – whole plant often purplish – none but uppermost leaves sharply acuminate. ½° – 2°..

July 26/67.– Sandy bottom of Truckee; Camp 12.– Annual. Much branched. Leaves opposite – floral ones alternate. Flowers in long terminal racemes. Corolla shut-lobed. Pod flat, many seeded. Leaves linear-oblong, remotely toothed, floral ones mostly entire. Stem hispid pubescent, leaves smooth. Corol very small, white.

July 26/67.– Sandy bottom of Truckee.– Camp 12.– Flowers minute, yellow.

July 26/67.– Truckee river bottom. Camp 12.– Abundant. Flowers (10–20) shortly pedicelled in round heads – not reflexed when dry. Wings purple, rest pinkish, withering persistent. Smooth, spreading. Pod 2-seeded.

July 26/67.– Truckee river bottom. Camp 12.– Abundant. Perennial. Stems, from spreading rootstocks, much branched & ensheated – 1°–2°. Flowers nodding, short-pedunculed, in heads with leafy cup-shaped involucre, fertile & barren together – staminate, pistillate, or perfect. Pistillate ones only fertile. Without corol or pappus. Staminate & perfect, with whitish 5-cleft tubular corolla, 5 distinct stamens, and chaffy scale at base of abortive achenium. Styles 2, linear. Achenium large, round. Leaves alternate, without stipules, entire, oblong-lanceolate or spatulate. Whole plant with short close pubescence – odorous.

July 26th/67.– Truckee river bottom.– Camp 12.–

July 26/67.– Sandy bottom of Truckee.– Camp 12.–

Sheet.	Specimen	
20	9	Castilleia (prima.)
21	10	Nasturtium (secundum.)
22	1	Sisymbrium (primum.)
23	4	Lepidium (primum.)
24	24	Salix (prima.)
25	5	Salix (secunda.)
26	4	Salix (tertia.) (2.
27	7	Salix (quarta.)
28	1	Asclepias (prima.)
29	10	~~Sodanthus (?)~~ (primus.)
30	1	Mimulus (primum.)
31	10 1	Chorne [illegible]

July 26/67.– Sandy bottom of Truckee.– Camp 12.– Pubescent throughout. Stem usually simple, 1°–3°.– Leaves acuminate lanceolate, strongly 3-ribbed, entire. Calyx deeply divided, more so behind – divisions toothed. Uppermost floral leaves terminally scarlet. Calyx equal to the reddish-green corol. Lower lip of corol short +

July 26/67.– Sandy bottom of Truckee.– Camp 12.–

July 26/67.– Sandy bottom of Truckee.– Camp 12.–

July 26/67.– Sandy bottom of Truckee.– Camp 12.–

July 27/67.– Sandy bottom of Truckee.– Camp 12.– Frequent elsewhere.– Possibly includes two species.

July 27/67.– Sandy bottom of Truckee.– Camp 12.–

July 27/67.– Sandy bottom of Truckee.– Camp 12.–

July 27/67.– Sandy bottom of Truckee.– Camp 12.–

July 27/67.– Sandy bottom of Truckee.– Camp 12.–

July 27/67.– Sandy bottom of Truckee.– Camp 12.– Abundant. Also found at Soda Lake, & elsewhere. Very much branched from bottom upward. Stem sometimes 1' in diameter at base. 3°–7°.

July 27/67.– Sandy bottom of Truckee. Camp 12.– Abundant. Very leafy. Often branching from base. 2°–4°.

July 27/67.– Sandy bottom of Truckee.– Camp 12.– Sepals 4; petals 4, with claws, obtuse. Aug. 4. 67 – From Hum bolt Beach, near Reid's Station.!
Stamens 6. Flowers in dense head at the extremities of a much lengthening racemes, rarely fertile, with a lanceolate, acuminate, short petioled bract at base of the long peduncle. Pod (1'–1½') on a slender stalk (1'), at extremity of (1½') peduncle. 2°–5°. Very much branched. Stem naked below, sometimes nearly 1' in diameter. Odor of whole plant disagreeable.

32	5	Juncus (prima.)
33	1	Echinospermum (prima.)
34	1	Trifolium (secundum.)
35	11	Juncus (prima.
36	4	Eleocharis palustris (?)
37	5	Eleocharis (secunda.) (?)
38	4	Euphorbia (prima.)
39	1	Stachys (prima.)
40	11	Salix (quinta.)
41	10	Sagittaria (prima.)
42	3 3	Juncus (secundus.)
43	9	~~Euphorbia (prima)~~? Hoppackia Pursiana

m. 20

July 27/67.– Sandy bottom of Truckee.– Camp 12.– Tiny with appressed hairs spreading from the strict calyx. Leaves linear lanceolate. Racemes hairy at base. Corolla white. Pedicels erect, less than the equal lanceolate sepals of the calyx.– 3'–6'.– Branched.–

July 27/67.– Sandy bottom of Truckee.– Camp 12.– Flowers white.

July 27/67.– Sandy bottom of Truckee.– Camp 12.–

July 27/67.– Sandy bottom of Truckee.– Camp 12.– Stamens 3.– Also in moist canon near Gibbs. Station III., Aug. 17/67.–

July 27/67.– Sandy bottom of Truckee.– Camp 12.–

July 27/67.– Sandy bottom of Truckee.– Camp 12.–

July 27/67.– Sandy bottom of Truckee.– Camp 12.–

July 27/67.– Sandy bottom of Truckee.– Camp 12.–

July 27/67.– Sandy bottom of Truckee.– Camp 12.–

July 27/67.– Sandy bottom of Truckee.– Camp. 12.–

July 27/67.– Sandy bottom of Truckee.– Camp 12.–
Aug. 6/67 – Fresh water border of Soda Lake.

July 27/67.– Sandy bottom of Truckee.– Camp 12.– Also in Carson river bottom at Reed's station.– Stamens diadelphous. Calyx equally 5-cleft, segments linear lanceolate. Wings & keel partially coherent & nearly as long as the expanded standard. Pod linear, flat, 5-1 seeded, 2-valved – villous with white hairs. Stem divaricate below & much branched above. (1°–2°.) Leaves pinnately ternate, ovate, mucronate, veiny. Flowers solitary, scattered, bright pink.

Sheet	Specimen	
44	1.	Amboria (prima.)
45	1	[illegible]
46	1	~~Euphorbiacea (prima.) (?)~~
47	6	~~Euphorbiacea (secunda.) (?)~~
48	3	Cuscuta (prima.)
49	7	Labiata.
50	12	[illegible]
51	5	~~Euphorbiacea (tertia.) (?)~~
52	12	Composita (prima) [illegible]
		[illegible]
53	10	Galium (primum.)
54	6	Castilleia (secunda.)
55	7.	Epilobium (secundum) (?)

July 27th/867 – Sandy plain bordering the Truckee. Camp 12.–

July 27th/867.– Sandy plain bordering the Truckee.– Camp 12.–

July 27th 1867.– Sandy plain bordering the Truckee.– Camp 12.–

Aug. 16th 1867.– Mountain side in cañon near Geod. Stat. II.

July 30th 1867.– Sandy plain, at Valley Wells.– Camp C. 12. A.–

July 30th 1867.– Sandy plain at Valley Wells.– Camp C. 12. A.–

July 30th 1867.– Sandy plain at Valley Wells, and very abundant in the plains & on the mountains.–

July 31st 1867.– Sandy plain at Valley Wells.– Camp C. 12. A.–

July 31st 1867.– Mountain cañon near Valley Wells – also near Geod. Stat. II. – Rays none. Flowers (4-5) all perfect & alike. Receptacle naked & flat, Pappus abundant, of stiff bristles, permanent, brownish of 4 stiff lanceolate scales. Achenia club-shaped, ribbed, with long spreading hairs, expanded at top. Whole shrub hoary, odorous, 2'-3'.–

July 31st 1867.– Same localities. On dry summits, in shade.

July 31st 1867.– Mountain cañon near Valley Wells.–

July 31st 1867.– Mountain cañon near Valley Wells, towards Stockton.

Sheet	Specimen	
56	4	Epilobium (testium)?
[illegible]	12	[illegible]
[illegible]	1	[illegible]
[illegible]	8	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	6	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	1	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

Aug. 16th 1867. – Mountain cañon, near Geod. Stat. II.

[illegible], 31st 1867. – Mountain cañon, near Valley Wells, – in sand. – Also Sept. – on summit of peak near Camp 16, in bloom. – Corolla yellow, salver-formed, limb [illegible] 5, inserted on corolla tube, equal to exert. stigmas 2-cleft. Pod 2-celled, 2-valved.

[illegible] 31st 1867. – Mountain Cañon near Valley Wells. – [illegible] the mountains. –

[illegible] 31st 1867. – Mountain Cañon, near Valley Wells, on Stockton [illegible] – Calyx 5-cleft – corol regular 5-cleft. (Stamens 5, alternate with corollas!) Ovary simple, 1-celled, 1-seeded. Leaves [illegible]

[illegible] 1867 – [illegible]

Aug. 5 1867. – same locality.

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]	2	Euphorbia
[illegible]	1	[illegible]
[illegible]		[illegible]
[illegible]	7	[illegible]
[illegible]	1	[illegible]
[illegible]	1	[illegible]
[illegible]	2	[illegible]
[illegible]	3	[illegible]
[illegible]	3	[illegible]
[illegible]	1	[illegible]
[illegible]	1	[illegible]
[illegible]	1	[illegible]
[illegible]	1	[illegible]
[illegible]	1	[illegible]
[illegible]	2	[illegible]

1 [illegible]

1 [illegible]

2 [illegible]

3 [illegible]

4 [illegible]

5 [illegible]

6 [illegible]

11 [illegible]

2

[illegible]

[illegible]

1	[illegible]	[illegible]
1	8	[illegible]
1	1	[illegible]
1	3	[illegible]
1	2	[illegible]
1	2	[illegible]
1	2	[illegible]
1	3	[illegible]
1	1	[illegible]
1	12	[illegible]
1	1	[illegible]
1	1	[illegible]
1	1	[illegible]
1	3	[illegible]

201	2	[illegible]
202	[illegible]	[illegible]
203	[illegible]	[illegible]
207	10	[illegible]
208	4	[illegible]
209	12	[illegible]
210	14	[illegible]
211	3	[illegible]
212	2	[illegible]
213	6	[illegible]
214	4	[illegible]
215	17	[illegible]
216	[illegible]	[illegible]
217	[illegible]	[illegible]
218	[illegible]	[illegible]

Sept. 19th 1867. – Stone Cairn. [illegible]

Sept. 19th 1867 – Stone Ring – Mountain [illegible]

Sept. 20th 1867. – Stone Cairn. [illegible]

Sept. 24th 1867. – Stone Circle Cairn – [illegible]

Sept. 19th 1867 – Stone Cairn

Sept. 23rd 1867 – Burghead. Dry stone Cairn

Sept. 23rd 1867 – Tomnaverie [illegible]

Sept. 26th 1867 – [illegible] Cairn. [illegible]

Sept. 27th 1867 – Minor Circle Remains – [illegible] ground

Sept. 27th 1867. – Tomnaverie [illegible]

Sept. 27th 1867. – [illegible]

Sept. 29th 1867. – Cairn. Remnant of [illegible] [illegible]
[illegible] (1867).

Sept. 29th 1867. – Tomnaverie [illegible]

Sept. 29th 1867. – [illegible]

Oct. 1st 1867 – [illegible]

219	1	[illegible]
220	[illegible]	[illegible]
221	3	Compositae
222	20	[illegible]
223	6	[illegible]
224	4	[illegible]
[illegible]		[illegible]
	2	
	[illegible]	
	15	[illegible]
	[illegible]	
[illegible]	2	[illegible]
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] - 18 - [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Nov. 26th 1886. – [illegible] – [illegible] – Accrescent.

[illegible] – [illegible]

occasionally with Trees.
+ stamens varying in number, from 4–5. –
Springy foothills! –
" 23d – Shady banks – flowers large – particularly. –

" 15 Meadow, near Corson
May 2 " " "

" 15 Springy [illegible]
" 14 meadow [illegible]

" 15 Foothills [illegible]
" 22 – Dry " [illegible]

" 12
" 23 [illegible]

" 14 Rocky foothills: near [illegible]

" 11 [illegible]
" 29 Mountainside – near Wrightwood – [illegible]
" 4 Sycamore Creek & [illegible]

" 15 [illegible]
" 22 – Sandy foothills, near [illegible]
" 15 [illegible]

" 1 – [illegible]

[illegible] — [illegible] Germanium

[illegible] — [illegible]

[illegible] — [illegible]

[illegible] — [illegible]

[illegible] — [illegible]

[illegible] — [illegible] Pilot

[illegible] — [illegible]

[illegible] — [illegible] Palmerston

[illegible] — [illegible] [illegible]

[illegible] — [illegible] [illegible]

[illegible] — [illegible] Palmerston

[illegible] — [illegible] Oldham

[illegible] — [illegible] [illegible]

[illegible] — [illegible] Arrowhead Hyde

[illegible] — [illegible] Pilot

Apr. 15 – 15 – Rocky foothills near Denver –
" 23
15 " "

" 4 Sage brush – [illegible]
" 29 Rocky foothills [illegible]
" 23 " " " [illegible]
" 23
" 15 " "
" 23
" 11 [illegible]
" 4 [illegible]
15 [illegible] above [illegible] – 4°
[illegible]
" " " " [illegible]
" " " 10°
May 2 [illegible]
Apr 15 Rocky foothills – [illegible] – 10°
2
May 25 [illegible] – rear [illegible] Dear –
in Nov. 28.

3:1 – 7 Polygonum

3:2 – 2 Rubus

3:3 – 4 Claytonia

4 – 3 Umbelliferae

5 – 6 Ranunculus

7 – 1 Compositae (Liguliflorae)

7 – 4

8 – 8 Boraginaceae

9 – 6 " (Echioid)

10 – Umbelliferae

11 – 16 Polemoniaceae

12 – 12 " (Phacelia)

13 – 3 " " " "

14 – 11 Cruciferae

April 22 — Many specimens of dry sandy foothills — segments of corolla recurved laterally, — light pink. — Common valley
Bank of Clear Creek — rocky gravelly canyon
May 2 — not yet in bloom. — Fruit green, "mycidia".
Apr. 26 Dry sandy foothills — West side of valley in mouth of Clear Creek canon — Resembling 35 larger, in upper leaving, flowers larger petals, [illegible] leaves narrow, not perpendicular, —
" Dry foothills below Carson — Much like 35 [illegible] —
" Sandy foothills mouth of Clear Creek canon near river, — Small, deep purple. —
" 22 " " mouth of Clear Creek canon — Scan
May 26 in bloom. — Lower locality
Apr. 22 — Sandy foothills mouth of Clear Creek. —
" 21 " " " Carson —
" " " " "
" " " " "
" " " " "
" " " " "
" 22 " " "
" 21 — Sandy foothills near river — white
" 21 " " " yellow
" " " " light purple
" 21 " " " "

395 - 5 Conciger

396 - 1/1 "

397 - 1/1 Pomatomaceae (?) [illegible]

398 - 5 Pleuro Nonoptrophilen (leave)

399 - 2/1 Juniperus Oxycedrus "

[illegible] - 1/1 Ephedra Antisyphilitica

[illegible] - 1/1 Pomatomaceae

[illegible] - 1/1 Confinis [illegible]

[illegible] - 1

[illegible] 1/1 Cactilin [illegible]

[illegible] - 2/1 Conciger

[illegible] - 6/6 Conciger

[illegible] - 10 Pomatomaceae

[illegible] - 5 Stetrapelma

[illegible] - 10

Aug 29

Aug 4 – Flat Creek, above Carson. –

" 23 "
" 29 " " "

" 22c Sandy foothill, north of Carson
a little canon, –

" 21a Hills E. Empire City. – Leaves from
young & much mature trees. –

" " Same locality – two forms of
leaves – Peak south of Mormon = Mt. Adams

" 22a – Foothills, south of Carson –

Sep 9

Sep 23e " north " "

" " " " "
" 29 " "
" 23 Salt meadow – " "

" " Foothill " "

" 23 Dry creek

" " Same locality.

" 29 " "

" 23 Salt meadow – N. of Carson

" " Dry foothills – Jackson Co. – "

" " " Possibly same
as last –

410 - I Astragalus

411 - 2/8 Cuneiform

412 - 4 Calcaneum

413 - 3/1 Pisiform

414 - 1 Scaphoid

415 - 11/1 Cuneiform

416 - 2 Cuboid

417 - 11 Metatarsal

418 - I Astragalus

419 - 1 Navicular

420 - 2 Cuneiform

421 - 1 Navicular

422 - 16 Cuneiform

423 - 20 Metatarsal (?)

424 - 1 Metatarsal (?)

Apr. 21 — Mountain side, [illegible]

" 23 Mountain summit [illegible]

" 24 " " [illegible]

" 25 High mountain side [illegible]

" " Dry foothills — [illegible]

" " " "

" " " "

" 28 "

" 28 " "

" " " "

" 29 " [illegible]

" [illegible] — [illegible]

" " Mountain side, [illegible]

" " Dry foothills, [illegible]

" " Summit of peak, [illegible]

" " High canon & Mountain side, [illegible]
[illegible]

" " High mountain side, [illegible]
[illegible]

[illegible] - 3 [illegible]

[illegible] - 2 [illegible]

[illegible] - 2 [illegible]

[illegible] - 2 [illegible]

[illegible] - 7 [illegible]

[illegible] [illegible]

[illegible] - 6 [illegible]

[illegible] [illegible]

[illegible] - 2 [illegible]

[illegible] - 3 [illegible]

[illegible] [illegible]

[illegible] - [illegible] [illegible]

[illegible] - [illegible] [illegible]

[illegible] - 7 [illegible]

[illegible] [illegible]

Apr. 28 [illegible]

" " [illegible]

May 2 [illegible]

" " [illegible] 26

" " [illegible]

" " [illegible]

" " [illegible]

" " [illegible]

" " [illegible]

" " [illegible]

" " [illegible]

" " [illegible]

" " [illegible]

" " [illegible]

" " [illegible]

" " [illegible]

440 – 2 Umbelliferae

441 – 3 Salix

442 – 7 Ranunculaceae

443 – 6 Oxalis – Lupinus

444 – 3 Senecio [illegible]

445 – 10 Orobanche (?!)

446 – 1 Trifolium

447 – 4 Epilobium

448 – [illegible] Salix

449 – 10 [illegible]

450 – 12 Ranunculaceae

451 – 13 Salix

452 – 10 Cerastium [illegible]

453 – 2 Prunus

454 – 4 Salix

May 2nd Sandy foothills below Canon

" " " " " "

" " " " " "

" " " " " "

" " near " above

" " Rocky " bed

" 4 Sandy foothills, near Mill

" 8 [illegible]

" " Creek bank, lower Mill

" " [illegible] landing, not yet in bloom

" " Sandy foothills, [illegible]

" " [illegible] plain [illegible]

" Mill [illegible] Canon [illegible]
stream bright red. — 10° Shade

" Same reality — gravel [illegible] — 2°

" " [illegible] 4° [illegible]

" " " stream — 8° [illegible]

[illegible] Pteris [illegible]

[illegible] Pteris [illegible]

[illegible] Pteris [illegible]

[illegible] Pteris [illegible]

[illegible] [illegible]

[illegible] [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

May 6th – Mile Station section – [illegible]

" " down to [illegible] – [illegible]

" " [illegible]

" " [illegible]

" " [illegible]

" " [illegible]

" " Eagle Valley – [illegible]

" " Eagle [illegible]

" " [illegible]

" " [illegible]

" " [illegible]

" " [illegible]

" " [illegible]

" " [illegible]

[illegible] Lonchopteridae [illegible]

[illegible] Mycetophilidae

[illegible] Cecidomyidae

[illegible] Cecidomyidae

[illegible] Cecidomyidae

[illegible] Anthomyidae

[illegible] Sciomyzidae

[illegible] Chloropidae [illegible]

[illegible]

[illegible]

[illegible] Anthomyidae

[illegible] Drosophilidae

[illegible] Muscidae

[illegible]

[illegible] Muscidae

[illegible] Tachinidae

[illegible] Sarcophagidae

[illegible]

Glyptopleura marginata.

151

May 19 -

4

17. [illegible] 2.

18. [illegible] 2.

19. [illegible] 1.-

20. [illegible] 10.-

21. [illegible] 4.-

22. [illegible] 2.-

23. [illegible] 5.-

24. [illegible] 2.-

[illegible]

[illegible] 4.-

[illegible] 2.-

[illegible] 3.-

[illegible] 4.-

[illegible] 2.-

[illegible] 1.-

[illegible] 1.-

[illegible] 1.-

[illegible] 2.-

[illegible] 1.-

[illegible] 5.-

[illegible]

[illegible]

1. [illegible] 1.-

2. [illegible] 4.-

3. [illegible] 2.-

4. [illegible] 13.-

J 2

31			
32			
33	C		
34			
35			
36			
37			1
38			
39			
40			
41			
42	C		
43	C		
44			7
45	C		1
46			3
47			11
48			1
49			2
50			1
51	C		2
52			2
53			2
54			2
55			
56			1
57			4
58	C		
59	C		
60			
61			11
62			4
63			1
64			
65			
66			

Thalictrum

Willia

1¾ 1⅝ 1½ 1¾ 1⅝ 1 3/16 1 1/16 2 5/16 3¾

15. Lil
16. Ga
16. F
17 Ho
18. Ce
19. Ri
20 Rh
21. Er
2 As
2 Ch
2 Co
2 Co
2 A
2 As
2

Leaves	6.6182	– 12.45	2.9651	– 5.35	– 55%	2.6196	5.45 P.M.		White Loss	60.4%
Stems	2.2099	– "	1.2469	– "	44%	.7537	"		" "	55.5 "
	20.2373	– 1.15	13.2402	– 5.50	– 35%	9.5669	6.00 "		" "	52.7 "
	5.4419	– "	4.1900	– "	– 23%	3.3945	"		" "	61.6 "
	4.3023	– 2.10	3.2295	– 6.00	– 25%	2.7376	6.15 "		" "	32.5 "
	3.4047	– 2.00	2.5374	– "	– 26%	1.7780	"		" "	47.7 "
	19.3254	– 1.45	13.4493	– 6.15	– 30%	10.4652	"		" "	45.7 "
	50.8370	– 1.30	33.7112	– 6.20	34%	25.9536			" "	48.9 "
	283.9956	– 2.25								
	384.4457									

6.45 P.M. 15.3350 = 58%
1.00 P.M. 14.3804 = 70%

4.45		13.8094	7.00	9.3914 = 68%
"	"	15.4594	"	11.7367 = 75½%
4.45		150.4437 } = 60½%		
		97.4431		

3.55		13.1779	7.00 P.M.	10.9373 = 83%
		5.2746		
"		16.1477	" "	13.7927 = 85%
		5.3307		

= .09% loss

= .09% "

= .09% "

Loss

Loss 30.1902 11.15 22.3527 Loss = 26%

Loss 3% Loss 2.3% Loss 6.6% Loss 31.3%

10.45 19.2333 10.50 14.6714 11.01 18.6017 11.12 17.9669 Loss 1.00 12.4504

15.1619 10.9173 = 72%

4.1109

21.4311 13.0516 19.9461

6.8945

25.1515

4.10	Brown	19.7355	4.27	19.2333	Lon = 2%
4.15	"	5.1155	4.46	4.6567	" = 9%
.20	Brown	34.7641.55	4.44	33.4066	" = 4%

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Weeds

I. Centaurea diffusa	1 species	(illegible)	
II. Rubus	1 "	(illegible)	
III. Pinus	1 "	(illegible)	
IV. Lepidium sativum	1 "		
V. Grasses (Gramineae)	4 "	(illegible)	
VI. Clover	1 "	(illegible)	
VII		(illegible)	
VIII		(illegible)	
IX. Dandelion			
X. Plants of Chenopodiaceae & Polygonaceae			

List of Cryptogamic specimens -
Collected by Emma [illegible].
U. S. G. S.

1.- Moss. - July 25th 1867. - Dry Mountain Rocks. - Geol. Stat. I. - In fruit. Frequent upon rocks in this section.

2.- Moss. - Aug. 11th 1867. - Dry Rocks on border of Hot Springs. In fruit.

3.- Moss. - Aug. 11th 1867. - In same situation as last.

4.- Aquatic Moss. - Aug. 15th 1867. - In wet canon stream bed. - Geol. Stat. II. Now found in fruit.

5.- Moss. - In dry rock in same canon. - Aug. 15th 1867. In fruit.

6.- Moss. - Aug. 17th 1867. - In shaded wet bank in same canon, half up the mountain. Young. -

7.- Lichen. - Aug. 17th 1867. On Juniper tree, mountain summit. Geol. Station - II. Abundant in California.

8.- [illegible] wort. - Aug. 20th 1867. - Moist sandy bottom of Truckee river. Camp 12. - Appears soon after the waters retiring. (July 24th.) Now apparently mature, but no fruit. [illegible] Upper [illegible] of wood more or less honeycombed, the cavities in some specimens having a central tube, not exact, sometimes becoming light purple. -

9.- Alga. - Aug. 20th 1867. - Truckee River. - Camp 12. -

10.- Alga. - Aug. 20th 1867. - Truckee River. - Camp 12. - In border of the stream with the last.

11.– Confervoid. (?) – Aug. 11th 1867. – Traces of a thick, short, dirty green growth upon the bottom & covered of the hot springs in the Hot Spring Mts. –

12.– Fungus. – Aug. 29th 1867. – Sage Plain of Humboldt River, above Gorlock's Station. – Large & very long stiped (8-15") stipe clothed with long scales. Spores abundant, cinnamon color, borne within the [illegible] of the horizontal cap [illegible] head. Original color whitish – now covered by spores.

13.– Fungus. – Aug. 31st 1867. – Moist bank of mountain stream in canon of W. Humboldt Mts., east of Camp 17. – Cartilaginous disk, easily Circular, nearly flat, rim slightly raised & edged with long hairs. Color, bright vermilion. 3/8"–1/2" in diam. Single specimen.

14.– Fungus. – Aug. 31st 1867. – On same stream with the last, but in different locality, and very much resembling it. Rim more raised & curved & with a wider border of short hairs. – Also [illegible]

15.– Moss. – Aug. 31st 1867. – From cleared crevices in rocks of same canon, near top of mountain. Probably same as (2.) –

16.– Moss. – Aug. 31st 1867. – With the last.

17.– Moss. – Aug. 31st 1867. – With the last.

18.– Moss. – Aug. 31st 1867. – With the last.

19.– Moss. – Aug. 31st 1867. – With the last.

20.– Moss. – Aug. 31st 1867. – With the last. – Perhaps two species. –

21.– } Mosses. – Aug. 31st 1867. – Wet shaded bank of mountain stream. In the
22.– } same canon as the preceding. –

23.– Moss. – Aug. 31st 1867. – Same locality as last. Partially growing in the water. Probably embraces two species. –

524. Moss. – Aug. 31st 1867. – Near same locality as last. –

525. Moss. – Aug. 31st 1867. – " " " " "

526. Moss. – Aug. 31st 1867. – " " " " "

27. – [illegible]

Value of weights, used with scales furnished

1 oz. =	37.2192	grains
½ "	18.6114	"
¼ "	9.3114	"
⅛ "	4.6607	"
1/16 "	4.6896	
16 grs.	1.6057	"
12 "	1.0617	"
6 "	.5617	"
5 "	.4518	"
4 "	.3375	"
3 "	.2675	"
2 "	.1952	"
1 "	.0971	"

4/5/2/15
30 32

J Juniper, 12' = 250 rings June 29
J well or Cape Horn 110 ft deep = 50 water
J Twisted branch – July 20
J Mo. Mahog. 2° = 160 " 30
J Artemia Aug. 5
J Purshia 9
J Pines Aug. 10
J Cercop " 22 + 24

L18